

6993

WIRE DRAG

Diag'd. on Diag. Ch. No. 1210-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic (Wire Drag)

Field No. WAHI-1744 Office No. H-6993

LOCALITY

State Rhode Island

General locality Narragansett Bay

Locality Quonset Point

194 4

CHIEF OF PARTY

L. C. Johnson J. H. Brittain

LIBRARY & ARCHIVES

DATE June 18, 1945

B-1870 (1)

6993
WIRE DRAG

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. WaHi-1744 (WIRE DRAG)

REGISTER NO. H - 6993 W.D.

State Rhode Island

General locality Narragansett Bay
Quonset Point

Locality _____

Scale 1-10,000 Date of survey September, 19 44

Vessel WAINWRIGHT & HILGARD

Chief of Party L. C. Johnson & J. H. Brittain

Surveyed by above

Protracted by A. Kaupa

Soundings penciled by _____

Soundings in ~~fathoms~~ feet

Plane of reference Mean Low Water

Subdivision of wire dragged areas by A. Kaupa

Inked by A. Kaupa

Verified by G. F. Goodrich

Instructions dated August 11, 1944 (C.O. GILBERT), 19

Remarks: This sheet was processed at in the Hydrographic Section,
S.E. District, Norfolk, Va.

H-6993

DESCRIPTIVE REPORT
to accompany
Sheet WaHi 1744(Wire Drag)

U. S. C. & G. S. L. WAINWRIGHT, L. C. Johnson, Commanding.
U. S. C. & G. S. L. HILGARD, J. H. Brittain, Commanding.

INSTRUCTIONS,

22/MEK 1995 GI 1, Project CS-310, dated August 11, 1944, to ✓
Commanding Officer, U. S. C. & G. S. MV GILBERT.

LIMITS, etc.

This survey comprises a wire drag survey of an area to^{the} south of Quonset Point, Rhode Island, and was accomplished in accordance ✓
with request of the U. S. Navy. The area is used as landing and takeoff area for seaplanes.

METHODS,

Standard dual control methods were used for this survey. The launches WAINWRIGHT and HILGARD were drag launches and a launch furnished by the U. S. Navy was used as the tender. The drag ✓
strips were controlled by 3-point fixes on shore objects. The depth of the drag was determined by tests made by the tender, using a graduated 3/8" pipe, coated with a mixture of white lead and tal^{low}, and suspended by a graduated 1/8" wire cable.

CONTROL,

Existing triangulation, triangulation executed by the GILBERT, (1944), ✓
and graphic control executed in 1944, furnished adequate control for this survey. *Graphic control sheets subsequently destroyed by instructions - see D.R. H-6970*

DISCREPANCIES,

Due to sag in the bottom wire, some groundings occurred in areas that had been cleared to deeper depths than the effective depth at the time of grounding. Sag of as much as two feet was noted on some of the sections which could not be claimed as the section having the ✓
least effective depth governed the effective depth of the entire drag. On D day small wire was used for the bottom wire and sag of only one-half foot occurred. This enabled the area to be cleared in two directions where groundings had occurred at the same effective drag depth.

COMPARISON WITH EXISTING CHART AND HYDROGRAPHY,

The area covered by this survey contained many charted rocks and shoals. These ~~have~~^{had} been removed by dredging to a projected depth of 8 feet. Hydrography was accomplished in the area before wire dragging, ✓
and a least depth of 7 1/2 feet obtained. The area was covered to an effective depth of 6 1/2 feet and greater with the wire drag.

TIDES,

A tide station was established at Wickford, Rhode Island, to furnish ✓
data for reducing the drag depths to Mean Low Water. The value of Mean Low Water on the staff was 2.8 feet.

STATISTICS,

| Date 1944 | Day | Stat. Mile Strip | No. Sdgs. | No. Positions. |
|--------------|-----|------------------|-----------|----------------|
| Sept. 8 | A | 0.7 | | 11 |
| Sept. 11 | B | 4.8 | 2 | 87 |
| Sept. 12 | C | 4.8 | 2 | 73 |
| Sept. 13 | D | 1.8 | | 25 |
| Totals.. | | 12.1 | 4 | 196 |

Area covered in square statute miles 1.6

Respectfully submitted,

Clifton J. Wagner
Clifton J. Wagner,
Lt. Comdr. C&GS.

Approved and forwarded:

L. C. Johnson,
L.t. Comdr. C&GS, Commanding WAINWRIGHT.

J. H. Brittain
J. H. Brittain,
Lt. Comdr. C&GS, Commanding HILGARD

LIST OF SIGNALS - H-6993

TRIANGULATION STATIONS

WICKFORD L.H. OLD TOWER 1843

HAMILTON POWER STATION CHIM

FOX 1912

Topographic Signals - Graphic Control 1944

- See H-6970(1944)

Add

Bag

Bed

Cam

Car

Day

Deb

Egg

Gag

Hag

Ice

Ida

Ken

Mal

Ned

Odd

Ram

Sad

Sag

Tap

Van

Yak

Yam

Zoo

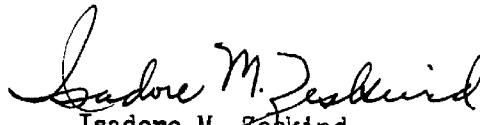
A D D E N D U M

to accompany

HYDROGRAPHIC (WIRE DRAG) SURVEY H-6993 (WaHi 1744)


The graphic control sheet Gi 44 A & B which accompanies this survey has not been inked, as this office was verbally informed that the control shown thereon was not deemed of sufficient importance to retain for future surveys.
See D.R. H-6970 (1944): Authorization to erase graphic control.

Respectfully submitted,


Isadore M. Zeskind
Cartographic Engineer

Norfolk, Va.
June 15, 1945

Approved & Forwarded


Paul C. Whitney
Supervisor, SE District

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H6993** W. D.

Records accompanying survey:

Boat sheets **..1..**; sounding vols. **.4..**; wire drag vols. **2..**;
 bomb vols. **.....**; graphic recorder rolls **.....**;
 special reports, etc. **...Sketch Book 1.....**
.....

The following statistics will be submitted with the cartographer's report on the sheet:

| | |
|---|---------------------|
| Number of positions on sheet | .196. |
| Number of positions checked | ..14. |
| Number of positions revised | ...9. |
| Number of soundings recorded | ...4. |
| Number of soundings revised (refers to depth only) | ...9. |
| Number of soundings erroneously spaced | |
| Number of signals erroneously plotted or transferred | ...9. |
| Topographic details | Time ..1 hr. |
| Junctions | Time ..9.. |
| Verification of soundings from graphic record | Time |

Verification by **R. D. Goodrich**... Total time **29 hrs.** Date **Sept. 20, 1946**

Review by **G. F. Jordan**..... Time **.9...** Date **Sept. 23, 1946**

GEOGRAPHIC NAMES

Survey No.

H6992 W. D.

Name on Survey

| | On Chart No. | On previous survey No. | On U. S. quadrangle Maps | From local information | On local Maps | P. O. Guide or Map | Rand McNally Atlas | U. S. Light List | |
|-------------------------|--------------|--------------------------|--------------------------|------------------------|---------------|--------------------|--------------------|------------------|----|
| A | B | C | D | E | F | G | H | K | |
| <u>Quonset Pt</u> | | | | | | | | | 1 |
| <u>Wickford Harbor</u> | | | | | | | | | 2 |
| <u>Conanicut Island</u> | | | | | | | | | 3 |
| <u>Rhode Island</u> | | (for title) | | | | | | | 4 |
| <u>Narragansett Bay</u> | | . | . | | | | | | 5 |
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| | | | | | | | | | 11 |
| <u>Wickford</u> | | (location of tide staff) | | | | | | | 12 |
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Names underlined in red approved

by L Heck on 9/25/46

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6993 W.D.

FIELD NO. WaH1-1744 W.D.

Rhode Island, Narragansett Bay, Quonset Point
Surveyed in September 1944 Scale 1:10,000
Project No. CS-310

Wire Drag:

Control:

Three-point fixes on shore signals

Chief of Party - L. C. Johnson and J. H. Brittain
Surveyed by - L. C. Johnson and J. H. Brittain
Protracted and inked by - A. Kaupa
Verified by - R. D. Goodrich
Reviewed by - G. F. Jordan, Sept. 23, 1946
Inspected by - H. W. Murray

1. Shoreline and Control

Shoreline is from air photographic survey T-5751.

Control originates with triangulation and with graphic control survey field No. GI-44a and b, which sheet has been destroyed in accordance with a recommendation in the D.R. of H-6970 (1944). Several topographic signals were subsequently located by triangulation.

2. Adjoining Wire-drag Surveys

An overlap on the southeast with H-4007 (1917) W.D. is satisfactory.

3. Contemporary Hydrographic Surveys

Effective depths on the present survey do not conflict with depths on H-6970 (1944).

4. Comparison with Chart 236 (Print Date of June 22, 1946)

Effective depths on the present survey do not conflict with charted depths.

5. Condition of Survey

- a. The wire-drag records and the descriptive report are complete in all detail.
- b. The smooth plotting is very good
- c. No soundings were obtained at the three groundings of $6\frac{1}{2}$, 7, and $7\frac{1}{2}$ feet in the vicinity of lat. $41^{\circ}34.9'$, long. $71^{\circ}24.9'$. These groundings fall in depths of 9 to 11 feet on H-6970 (1944). The 7-ft. grounding at lat. $41^{\circ}34.69'$, long. $71^{\circ}25.02'$, falls in depths of 8 feet on H-6970. All the above groundings were cleared with effective drag depths of 6 to $6\frac{1}{2}$ feet.


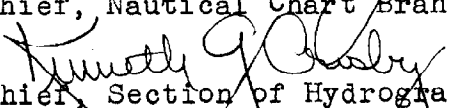
The questionable 16-ft. sounding charted at lat. $41^{\circ}34.72'$, long. $71^{\circ}24.38'$, and referred to in par. 5, page 6 of the D. R. of H-6970 was cleared with a single $14\frac{1}{2}$ ft. drag strip. The 16 is not considered disproved.

6. Compliance with Project Instructions

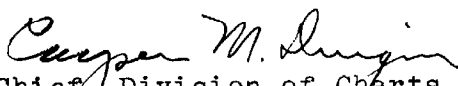
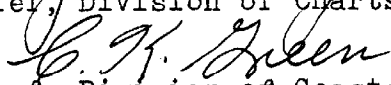
This survey adequately complies with project instructions.

7. Additional Field Work

The present survey requires no additional field work.


Chief, Nautical Chart Branch

Chief, Section of Hydrography

Examined and Approved:


Chief, Division of Charts

Chief, Division of Coastal
Surveys

22c
Hamm

TIDE NOTE FOR HYDROGRAPHIC SHEET

2 July 1945

~~Division of Hydrography and Topography:~~

✓ Division of Charts: Attention: H. W. MURRAY

Plane of reference approved in
3 volumes of sounding ~~wire drag~~ records for

HYDROGRAPHIC SHEET 6993

Locality Quonset Point, Narragansett Bay, Rhode Island.

Chief of Party: L. C. Johnson & J. H. Brittain, 1944

Plane of reference is mean low water reading

2.8 ft. on tide staff at Wickford

6.6 ft. below B. M. 2

Height of mean high water above plane of reference is 3.8 feet.

Condition of records satisfactory except as noted below:

C. T. Green
Chief, Division of Tides and Currents.

NAUTICAL CHARTS BRANCH

SURVEY NO. *H-6993-WD*

Record of Application to Charts

[illegible]

M-216B-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.